

66347

SECRET - SECURITY INFORMATION

July 24, 1952

COMPARISON OF SELECTED ITEMS
IN
JAPANESE EXPORT CONTROL LIST
WITH
COCOM CHINA LIST AND UK SUPPLEMENTAL

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Part II

(Item 14 through Conclusion)

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State, Commerce declassification & release instructions on file

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No.	Definition	No.	Definition
14	All fertilizers and materials: 1) Intermediate 2) Finished	2741	Nitric acid; ammonium nitrate; potassium nitrate.
Remarks: Japanese coverage broader.			
16	All scientific, precision or professional instruments, apparatus, parts, attachments, accessories and supplies (except hand-operated office machines)	1501	Communication equipment of a kind exclusively designed for use in an aircraft; <u>and</u> specialized parts therefor.
		1502	Communication equipment of a kind using infra-red radiation or ultrasonic waves; <u>and</u> specialized parts therefor.
		1505	Ionosphere recording apparatus, fully automatic.
		1507	'Jamming' apparatus (i.e., apparatus specially designed to jam or otherwise interfere with radio reception); <u>and</u> specialized parts therefor.
		1509	Location apparatus, as follows: a) Apparatus of a kind used for detecting objects or for determining the relative direction, position, or motion, of objects - by means of the constant velocity or rectilinear-propagation characteristics of electromagnetic waves having frequencies between 10^6 cycles per second (3 meters - 100 megacycles) and 4×10^{14} cps (0.75 microns); b) Specialized parts and accessories of such apparatus; c) Specialized equipment for testing or calibrating such apparatus.
		1510	Location apparatus, under-water: apparatus for detecting or locating objects under water (<u>excluding</u> specific civil items, e.g., apparatus for detecting shoals of fish).
		1512	Radar equipment, and radio navigation equipment (other than direction-finders), operating at frequencies below 100 megacycles per second.
		1514	Pulse modulators capable of providing electric impulses of peak power exceeding 10 KW; <u>and</u> pulse transformers and pulse-forming equipment being specialized parts of such modulators.
		1516	Radio receivers, panoramic (being receivers which search automatically a part of the radio-frequency spectrum and indicate visibly the signals received); <u>and</u> specialized parts therefor.
		1518	Telecontrol equipment suitable for controlling pilotless aircraft and guided weapons.
		1521	Amplifiers, as follows: a) Amplifiers, high gain, stable linear pulse designed to operate within the range of 50

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<u>No.</u>	<u>Definition</u>	<u>No.</u>	<u>Definition</u>
16 (Cont.)		1521	cycles per second to 10 megacycles per second, and of input resistance not less than 10 megohms;
		b)	Direct-current amplifiers (electronic or magnetic);
		c)	Amplifiers (electronic or magnetic) with gain control calibrated to indicate change in gain to an accuracy of a quarter of a decibel or better;
		d)	Amplifiers (electronic or magnetic) with a monimal logarithmic relationship between gain and input voltages.
		1522	Antenna pattern recorders for use at frequencies over 250 megacycles per second.
		1525	Coaxial-type cables, as follows:
		a)	Cables of very low attenuation and high uniformity, as used for frequencies of the order of magnitude of 3000 megacycles and above;
		b)	Cables of all types with polytetrafluoroethylene dielectric (i.e. teflon).
		1528	Frequency meters of the following kinds:
		a)	Frequency meters designed for measuring frequency of 600 megacycles per second or above; <u>and</u> specialized components thereof;
		b)	Frequency meters of the frequency-synthesis type (being instruments by which signals with adjustable frequencies, known to an accuracy of one part in a million, are produced by the heterodyne combination of signals from crystal-controlled oscillators).
		1531	Radio field strength meters of a kind used at frequencies over 60 megacycles per second; <u>and</u> specialized parts therefor.
		1532	Radio-frequency signal generators (being screened electric oscillators associated with attenuators of a kind used to provide signals having frequencies exceeding 300 megacycles per second and magnitude less than 1 microwatt or 10 millivolts peak value); <u>and</u> specialized parts therefor.
		1533	Radio spectrum analyzers (being apparatus capable of indicating the single-frequency components of multifrequency oscillations having frequencies exceeding 30 kilocycles per second); <u>and</u> specialized parts of such analyzers.

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No.	Definition	No.	Definition
16 (Cont.)		1537	Special tuned circuits, as follows: a) Electromagnetic waveguides, resonant circuits, and radiators of a kind used at frequencies exceeding 600 megacycles per second; b) Articles or equipment incorporating, or designed to be connected to or to be incorporated in, any such waveguide, circuit, or radiator.
		1541	Cathode-ray tubes, with screen afterglow longer than 1/2 second.
		1544	Diodes and triodes, as follows (and specialized parts therefor): a) Crystal diodes of a kind used at frequencies of 500 or more megacycles per second; b) Crystal triodes, regardless of frequencies.
		1548	Photoelectric cells with peak sensitivity at a wave length longer than 7000 Angstrom units.
		1549	Photomultiplier tubes; and specialized parts therefor.
		1552	Rectifier or amplifier tubes, cold-cathode types.
		1555	Television camera tubes; and other tubes in which provision is made for the storage of electric charge in a spatial pattern.
		1558	Valves (tubes), electronic, of the following kinds and specialized parts therefor): a) Those of a kind used with a potential difference exceeding 9000 volts between electrodes; b) Those of a kind used at frequencies over 250 megacycles per second; c) Those of a kind that can be passed through a circular hole 1/2" (1.27 cm) in diameter; d) Those designed to withstand severe mechanical vibration or shock.
		1561	Absorption meters, infra-red.
		1563	Balances, as follows: a) Balances, electronic - capable of detecting differences in weight smaller than 10 micrograms; and specialized parts therefor; b) Balances of sensitivity of .01 milligrams or better.
		1565	Computers, electronic (except business-type calculating machines).
		1567	Densitometers measuring directly by photo-multiplier tube.
		1569	Electrometers (except student type).

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16 (Cont.)		1571	Geophysical prospecting equipment, as follows: a) Seismeters; b) Gravimeters; c) Electronic or fluxgate magnetometers (including air borne magnetometers); d) Complete seismic exploration recording equipment, portable or designed for truck mounting; and the following units when specifically designed and/or designated therefor: 1) Amplifiers with automatic volume control; 2) Variable filters; 3) Synchronized timing-photographic recording equipment (including recording oscillographs), and parts specifically designed therefor; 4) Geophones; and parts specifically designed therefor; 5) Electromagnetically-damped galvanometers; 6) Equipment for surface shooting, employing shaped charges.
		1573	Impedance-measuring apparatus (apparatus of a kind used to measure electric impedance at frequencies over 60 megacycles per second); and Specialized parts therefor.
		1575	Leak-detecting instruments (instruments capable of detecting small leaks of gases under high vacuum or high pressure).
		*1577	Meteorological sounding balloons, 1100 grams or larger.
		1578	Micro-hardness testers.
		1579	Microscopes of the following kinds: a) Electronic; b) Metallurgical - consisting of microscopes (whether or not in combination with a camera and mounted, or capable of being mounted, on a rigid optical bench - i.e. a metallograph) which possess, or are capable of adaptation to include the following: i) An illumination system by which the light beam enters the microscope axially and is projected through the objective lens to the specimen under observation; and ii) A tube of a length which, when used with a lens capable of magnification to 75 times or greater, will obtain a flat field of view wherein all parts of the specimen under observation are simultaneously in sharp focus.

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No.	Definition	No.	Definition
16 (Cont.)		1582	Optical curve generators (grinders, surfacers, and polishers) and parts, capable of producing: a) Aspherical curves; b) Toric, cylinder, or spherical surfaces on glass or other material without the use of mating surfaces or laps.
		1583	Oscillographs, recording.
		1584	Oscilloscopes (cathode-ray) and accessories, of the following kinds (and specialized parts therefor): a) With time basis shorter than 2 microseconds; b) Designed to incorporate 3 or more cathode-ray tubes; c) Oscilloscope cameras.
		1586	Pyrometers, as follows: a) Optical pyrometers - disappearing-filament types; b) Radiation type pyrometers with sensitive receiver consisting of either a thermocouple (with or without protecting tube) or a "sighting" device whereby heat is focused on a thermopile by a lens or mirror.
		*1587	Quartz crystals and plates.
		1589	Resistors, temperature-sensitive (of a kind used in bolometers or in the measurement of electric power below 10 milliwatts but <u>excluding</u> electric lamps.
		1591	Spectrographs, spectrometers, and monochrometers as follows: a) Grating types with, or designed for use with, diffraction gratings (originals or replicas, plane or concave); <u>and</u> gratings therefor; b) Prism types, (1) capable of a spectrum length of 20 cms between 9000 and 2000 Angstrom units, <u>or</u> (2) designed for use with prisms having refracting face 35 mm or more in width; c) Infra-red types, having, when of prism pattern, an effective total prism base length over 2" (5 cm).
		1592	Strain gauge equipment, electric recording; <u>and</u> specialized parts therefor.
		1594	Voltmeters, as follows: a) Portable DC vacuum tube voltmeters with full scale range of 1 millivolt or less, with or without AC adapters; b) Portable AC vacuum tube voltmeters of laboratory type with full scale range of 0.01 millivolt or less. (Note: This <u>excludes</u> voltmeters specially designed for testing telephone lines.)
		1596	Warburg apparatus for the examination of living tissue.
		1598	-ray flows:

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<u>No.</u>	<u>Definition</u>	<u>No.</u>	<u>Definition</u>
16 (Cont.)		1598	X-ray diffraction equipment, as follows: a) X-ray diffraction units; b) X-ray tubes designed or intended for use in X-ray diffraction analysis.
		1599	X-ray tubes 1000 PKV and over.
		1910	Optical glass (slab or rough mouldings), as follows: a) Raw optical glass; b) Raw optical filter glass.
		*1920	Paper or synthetic film for dielectric use (condenser tissue), coated or uncoated, 0.0015" (.038 mm) or less in thickness.
		2521	Sub-miniature electronic-circuit components.
		2541	Crystal diodes incorporating germanium or silicon of a kind used at frequencies below 500 megacycles per second.
		2545	Vacuum valves (tubes), electronic capable of conducting a peak current greater than 10 amperes (except those covered by Item 1558).
		2570	Electric or electronic impulse registers or counters designed to operate at over 20 counts per second.
		2580	pH meters, and pH control apparatus, for industrial processes.
		3561	Bridges for measuring capacitance impedance, inductance, and/or resistance - precision types.
		3580	Voltmeters, ammeters, and microammeters (including portable test type) precision indicating types with an accuracy of 0.5% of full scale deflection.
		Supp.	Telescopes and binoculars.
		Supp.	Precision scientific and optical instruments capable of being used in the development, production and testing of military equipment.

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No.	Definition	No.	Definition
17	All machinery, equipment, parts, accessories, attachments, apparatus and controls of the following types: (1) Construction, excavating, dredging, loading or surfacing.	*1130	Compressors, as follows: a) Compressors capable of delivering air, gases, or vapors at pressures exceeding 300 psi (21 kg per sq cm); b) Compressors, n.e.s. and parts, regardless of delivery pressures and capacities, when fabricated of, or lined with, any corrosion-resistant material. (For other compressors see item 1380).
		1321	Tractors, diesel or gasoline powered 60 bclt.h.p. and over (50 drawbar h.p. and over): a) Wheel; b) Tracklaying.
		1325	Excavating and moving equipment as follows, when specially designed for airborne transport: a) Excavators; b) Power shovels; c) Cranes.
		*1380	Compressors and blowers, as follows (also see item 1130): a) Turbo compressors or blowers capable of operating at <u>either</u> (1) speeds of 8,000 rpm or over, or (2) with internal air flow at any point exceeding a Mach. number of 0.7; b) Compressors or blowers capable of an overall compression ratio of 2:1 or more, coupled with a capacity of over 35,000 cu ft (991 cu m) per minute; c) Compressors or blowers capable of handling a mass flow of over 2500 pounds (1130 kg) per minute and designed for operating with intake above atmospheric pressure
		*1822	Pneumatic tire casings for soil compactors of 10 tons or over net vehicle weight, whether or not mounted on the vehicle.
		*2210	Welding sets for ferrous and non-ferrous metals, electrical (<u>including</u> high frequency), all types.
		*2326	Off-the-road trucks, wagons, and trailers.
		2401	Dredges and specialized dredge equipment and components, such as grabs, buckets, cutters, ladders, centrifugal pumps, and floating and shore pipelines.
		*3131	All pumps (except vacuum pumps) delivering liquids separately or in combination with solids and/or gases, with all the following characteristics: (a) designed for working pressures of 75 psig and under 300 psig; (b) designed to operate continuously at temperatures under 200 degrees F; (c) not fabricated of or lined with any corrosion-resistant materials.
		3321	Road and airport machinery: a) Concrete mixers (stationary and portable, including truck and trailer mounted) and concrete transport truck mounted agitators 18 cubic feet capacity and over;

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17 (Cont.)		<u>Supp.</u>	Cranes
		<u>Supp.</u>	Excavators including power shovels.
		<u>Supp.</u>	Bulldozers, angledozers, and trail builders.
Remarks: Japanese list broader.			
17 Cont. (2)	Transportation, communications, conveying or agricultural, including supplementary and service (except bicycles and parts only, children's vehicles, water craft under 18 feet in length and hand-powered agricultural machinery.	*1255	Diesel engines, marine types, of 1500 h.p. or over, with rotary speed of 200 rpm or over.
		*1256	Diesel engines, all types, with the following characteristics: a) 200 to 300 h.p. with rotary speed of 1,000 rpm or over; b) 300 to 800 h.p. with rotary speed of 600 rpm or over; c) Over 800 h.p. with rotary speed of 400 rpm or over.
		*1260	Electric motors, reversible types, over 1,000 h.p.; and automatic controls for starting, stopping and reversing such motors.
		*1265	Internal combustion marine engines, carburetor types, outboard over 50 h.p.
		1401	Floating docks.
		1405	Ice breakers (i.e., ships constructed specifically for the purpose of breaking ice) of 2000 total h.p. or over.
		1410	Tankers; tank barges, whaling factories.
		1415	Warships (whether or not converted to non-military use and regardless of current state of repair or operating condition); and hulls, or parts of hulls, for such ships.
		1425	Batteries (submarine).
		1430	Cables (multicore) suitable for harbour defense purposes and mine-sweeping.
		1450	Automotive vehicles, or chassis, in which power may be applied to all wheels; and specialized components thereof.
		1470	Flat cars with a load capacity of 40 tons or over
		1475	Tank cars (rail) with a load capacity of over 10 tons.
		1480	Well cars with a load capacity of over 10 tons.
		1485	Gyro-compasses; gyro repeaters.
		2250	Diesel engines, marine types, of 1500 h.p. or over and less than 200 rpm.
		2251	Diesel engines of over 65 h.p. not over 200 h.p.
		2255	Internal combustion marine engines, carburetor types, inboard over 100 h.p.
		1435	Minesweeping equipment (magnetic and acoustic).

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No.	Definition	No.	Definition
17 (2) (Cont.)		2260	Marine steam boilers of 3,000 sq ft (280m ²) heating surfaces or greater and designed to operate at 450 psi (32 kg per sq cm) or over; <u>and</u> feed water heaters for such boilers.
		2470	Locomotives and locomotive parts, the following: a) General service (line), switching and industrial locomotives of a gauge greater than 3' or with an individual axle load greater than 5 metric tons; b) Parts specially designed for the above locomotives; c) General service, switching and industrial locomotives of 3' gauge or less or possessing an individual axle load of 5 metric tons or less; d) Mine locomotives (surface and underground), all types and sizes; e) Parts specially designed for the types of locomotives defined in paragraphs (c) and (d) above.
		2475	Railway rails: a) Railway rails of 40 pounds or more per linear yard (2- kgs or more per meter). (Note: This item covers transportation and industrial type only, including but not limited to general service railway rails, grooved rails, mine rails, and light-railway rails, if within the above specification.)
		2480	Automatic (block type) railway signal systems; <u>and</u> parts specially designed for such systems.
		2405	Ice-breakers (i.e. ships constructed specifically for the purpose of breaking ice) under 2000 total h.p.
		2415	Other vessels, as follows (<u>and</u> hulls, parts of hulls therefor): a) Merchant ships having (1) a gross tonnage over 700 gross registered tons, independent of speed; <u>or</u> (2) an operating speed loaded of over 12 knots; b) Fishing vessels as follows: (1) of 100 feet (30M) in length <u>or</u> over; <u>or</u> (2) having apparatus for generating electrical power of 20 KW <u>or</u> over; c) Merchant ships, n.e.s.; d) Other vessels, n.e.s. over 40 feet (12M) in length <u>or</u> over 50 shaft h.p. (or equivalent).
		2440	Propellers (marine) of 12" (30 cm) diameter and over; <u>and</u> blades for such propellers.
		3250	Diesel engines 25 to 65 h.p.; and diesel engines, n.e.s.
		3450	Automotive vehicles or chassis, 10,001 lbs. and over GVW, powered by rear axle drive, gasoline, diesel or semi-diesel motors.
		3451	Automotive parts and gasoline engine (except battery boxes, ball and roller bearings and parts, tires, inner tubes, and fan belts).
		3471	Railway freight cars, all types, over 10-ton load capacity (<u>except</u> those covered in items 1470, 1475, & 1480).

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<u>No.</u>	<u>Definition</u>	<u>No.</u>	<u>Definitions</u>
17 (2) (Cont.)		3475	Components for railway freight cars, all types, over 10-ton load capacity as follows: a) wheels, tires, axles and assemblies thereof; b) brake equipment (except hand brakes), and parts.
		3477	Railway rails: b) Railway rails of less than 40 lbs. per linear yard (20 kgs per meter) (Note: This item covers transportation and industrial types only, including but not limited to general service railway rails, grooved rails, mine rails, and light-railway rails, if within the above specification.)
		<u>Supp.</u>	Internal combustion engines.
		<u>Supp.</u>	Motor vehicles (including tractors and motor cycles); trailers and components and spares, servicing equipment and materials.
		<u>Supp.</u>	Rails, locomotives and railway rolling stock, and parts thereof.
		* <u>Supp.</u>	Water craft and important components.
		* <u>Supp.</u>	Cranes.
Remarks: Japanese coverage broader.			
17 Cont. (3) Mining, quarrying, well or pumping.		*1131	Pumps (except vacuum pumps) delivering liquids separately or in combination with solids and/or gases and having <u>any</u> of the following characteristics: a) Designed to produce pressures of 300 psi (21 kg per sq cm) and over <u>or</u> b) Designed to operate at temperature of 220 degrees F (104 degrees C) and over; <u>or</u> c) Fabricated of, or lined with, any corrosion-resistant material. (Note: This does <u>not</u> include diesel and fuel injection pumps, or pumps destined for compressing the liquid in hydraulic presses in conjunction with woodworking planing machines.)
		1310	Separators (electrostatic) having voltage of more than 1,000 volts across the air gap; and parts.
		1351	Mining equipment: 'Rocker' shovels (i.e., mine car loaders fitted with shovels or buckets operating on rocker arms); <u>and</u> component parts thereof.
		1381	Core drill bits (<u>excluding</u> those covered by 1150(c) and (h)).
		*2326	Off-the-road trucks, wagons, and trailers.
		2350	Mining equipment, as follows: a) Loading machines, all underground types for rock, coal or ore. (This <u>includes</u> duckbill type self-loading shaking conveyers, but <u>excludes</u> "rocker" shovels as covered by 1351) b) Underground tractors, self-propelled only, tracklaying and rubber-tyred types specially designed: (i) for hauling of minerals, rock, equipment, or supplies, <u>or</u> (ii) as

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No.	Definition	No.	Definition
17 (3) (Cont.)		2350 (b)(11) (Cont.)	following auxiliary underground mining equipment (whether or not mounted with such equipment): drills, timber setters, post pullers, rock dusters, compressors, conveyers.
		*3131	All pumps (except vacuum pumps) delivering liquids separately or in combination with solids and/or gases, with all the following characteristics: (a) designed for working pressures of 75 psig and under 300 psig; (b) designed to operate continuously at temperatures under 200 degrees F; (c) not fabricated of or lined with any corrosion-resistant materials.
		3150	Core drills, n.e.s. (including those used for blast-hole drilling, but excluding (i) chilled shot type drills and (ii) all core drill bits, as covered by 1150 (c) and (h), and 1381)
		3351	Power driven hoisting equipment for mines, and controls for such equipment 500 h.p. and over.
		*3380	Conveyor belting (interpreted to include rubber balata, asbestos and woven wire conveyor belting).
		3381	Crushing equipment the following: a) crushers, grinders and pulverizers; all types except for food processing; b) colloid mills.
		Supp.	Mining machinery.
17 (4) Petroleum field, refining, pumping, processing or handling.		*1133	Valves and cocks with pressure parts wholly made of, or wholly lined with, any corrosion-resistant material.
		*1134	Valves, electrically controlled automatic types.
		*1135	Pipe valves, n.e.s., designed for working pressures of 900 or more psi (63 kg per sq cm).
		*1141	Stainless steel tanks with capacity of 2,000 Imperial gallons (2,400 US gallons or 9,100 litres) or over; and piping and allied fixtures for such tanks.
		1150	Oil well drilling and exploration equipment. (see also item 1571, formerly 100A.) (Interpreted to include the following: a) Casinghead and Christmas tree assemblies; b) Cementing equipment; c) Coring equipment; d) Gun perforating equipment; e) Photoclinimeters; f) Power pumping units, bottom hole pumps and working barrels; g) Blowout preventers; h) Drill bits (rock bits); i) Draw works and rotary tables; j) Well logging instruments and equipment; k) Drill collars, tool joints, Kelly's and Kelly substitutes; l) Crown blocks, traveling blocks for oil derricks).

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No.	Definition	No.	Definition
17 (4) (Cont.)		1151	Oil refining equipment, the following units for refining lubricating oils (and complete plants including any of these units): a) Solvent processing units (<u>including</u> phenol, duosol, furfural, and nitro-benzene solvent extraction and propane de-asphalting units); b) Dewaxing units (<u>including</u> centrifugal and solvent dewaxing units, such as methyl-ethyl-ketone and propane units); c) Filtration units (<u>including</u> percolation filtration, contact filtration, and filtrol fractionation units); d) Fractionating, rectifying, and dephlegmating columns, <u>and</u> parts therefor.
		1152	Oil and natural gas production equipment, as follows: a) Units for treating, separating and stabilizing, and natural gas extraction; b) Complete plants including any of the above units; c) Items of equipment specially designed therefor (<u>including</u> , but not limited to, the following: stabilizing, absorption, and stripping vessels; separators; condensers).
		1153	Fuel production equipment, as follows: a) Processing units of types suitable for the production of components of aviation fuels for reciprocating engines (includes alkylation, thermal, and catalytic cracking units; isomerization, hydroforming, aromatization, dehydrogenation, hydrogenation, polymerization, polyforming and platforming units.) b) Complete plants including any of these units.
		1154	Welded or seamless steel casing, drill pipe, tubing, and line pipe conforming with API specifications for oil country tubular products. (This <u>excludes</u> gas, water, and steam pipes of ordinary commercial quality; spigot and faucet pipes; flange tubes.)
		1155	Heater return bends for petroleum refineries.
		*1571	<u>Geophysical</u> prospecting equipment, as follows: a) Seismometers; b) Gravimeters; c) Electronic or fluxgate magnetometers (including airborne magnetometers); d) Complete seismic exploration recording equipment, portable or designed for truck mounting; and the following units when specifically designed and/or designated therefor: 1) Amplifiers with automatic volume control; 2) Variable filters;

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No.	Definition	No.	Definition
17 (4) (Cont.)		*1571 (d) (Cont.)	3) Synchronized timing-photographic recording equipment (including recording oscillographs) <u>and</u> parts specifically designed therefor;
			4) Geophones; <u>and</u> parts specifically designed therefor;
			5) Electromagnetically-damped galvanometers;
			6) Equipment for surface shooting, employing shaped charges.
		*1386	All tools, including dies and slugs, incorporating diamonds.
		*1845	Rotary drilling hose, high pressure (with test pressure 3000 psi (210 kg per sq cm) <u>and</u> over).
		*2110	Heat exchangers (tubular) for industrial processes, n.e.s., <u>and</u> components therefor.
		*2131	Pipe valves (except automatic control or corrosion-resistant) designed for working pressures within the ranges of 300 to 900 psi (21 to 63 kg per sq cm).
		*2132	Valves, controlled automatic types (<u>except</u> those electrically controlled and those made of or wholly lined with corrosion-resistant material, as covered by items 1134 and 1133 respectively) as follows: Any pipe valve having partially or wholly integral with it a mechanism actuated by hydraulic, pneumatic, mechanical or other means which regulates or controls its operations, <u>except</u> (i) check, non-return and float; (ii) pressure relief valves designed for working pressures of less than 300 psi (21 kg per sq cm); and (iii) valves specifically designed for milking machines and for household refrigerators and home freezers.
		*2140	Drums(metal) of 5 or more US or UK gallons capacity (20 litres), made of, or lined with, any corrosion-resistant material, <u>except</u> containers designed for the transport of milk.
		*2141	Chemical process vessels (with or without stirring gear and with or without jackets) and piping made of or lined with any corrosion-resistant material.
		*2610	Metal pipe and tubing, seamless, as follows (cast iron not included): (a) Steel, n.e.s., (b) Platinum.
		<u>Supp.</u>	Petroleum refinery equipment.
		<u>Supp.</u>	Containers suitable for use in storing or transporting petroleum, of capacity of 4 gallons or more.
17 (5) Chemical, manufacturing, handling or storing.		1101	Acid (mineral) concentrating equipment, as follows: a) Complete installations; b) Unit components; c) Items of equipment specially designed therefor.

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17 (5) (Cont.)		1102	Ammonia oxidation equipment, as follows: a) Complete installations; b) Catalysts suitable for ammonia oxidation.
		1103	Anti-biotics production equipment, as follows: a) Complete installations; b) Specialized components thereof.
		1106	Centrifugal counter-current solvent extractors.
		1107	Chlorine production equipment (for producing gaseous and liquid chlorine) as follows: a) Complete installations; b) Unit components; c) Items of equipment specially designed therefor.
		1109	Freeze-drying equipment or plant.
		1110	Gas-liquefying equipment and equipment for handling liquefied gas, designed for operation at pressures of 300 psi (21 kg per sq cm) or over. (Note: This includes steel cylinders for compressed or liquefied gases, whether or not with welded bottoms.)
		1112	Hydrogen producing equipment (water gas, electrolytic, gas cracking, gas extraction processes).
		1113	Hydrogenation equipment, as follows: a) Complete installations; b) Catalysts suitable for hydrogenation.
		1116	Methanol oxidation equipment, as follows: a) Complete installations; b) Catalysts suitable for methanol oxidation.
		1118	Nitrators
		1120	Processing equipment operating at pressures over 200 psi (14.0 kg per sq cm) as follows: a) Complete installations; b) Unit components; c) Items of equipment specially designed therefor (including, but not limited to, autoclaves and digesters).
		1123	Sulphur (natural) extraction equipment, as follows: a) Complete installations; b) Unit components; c) Items of equipment specially designed therefor.
		1124	Sulphur burners and pyrites roasters.
		1127	Water-treatment equipment, industrial (Except (a) anti-scaling equipment, as covered by item 2120; and (b) stationary equipment for the treatment of drinking water.
		*1130	Compressors, as follows: a) Compressors capable of delivering air, gases, or vapors at pressures exceeding 300 psi (21 kg per sq cm); b) Compressors, n.e.s. and parts, regardless of delivery pressures and capacities, when fabricated of, or lined with, any corrosion-resistant material. (For other compressors, see item 1380).

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No.	Definitions	No.	Definition
17 (5) (Cont.)		*1131	Pumps (except vacuum pumps) delivering liquids separately or in combination with solids and/or gases and having <u>any</u> of the following characteristics: a) Designed to produce pressures of 300 psi (21 kg per sq cm) and over; <u>or</u> b) Designed to operate at temperatures of 220 degrees F (104 degrees C) and over; <u>or</u> c) Fabricated of, or lined with, any corrosion-resistant material. (Note: This does <u>not</u> include diesel and fuel injection pumps, or pumps destined for compressing the liquid in hydraulic presses in conjunction with woodworking planing machines.)
		*1132	Vacuum pumps (and parts), all types (including mechanical diffusion and objector) which: a) Are designed to produce a vacuum of 2mm of mercury pressure absolute or less; <u>or</u> b) Regardless of vacuum produced, are fabricated of, or lined with, any corrosion-resistant material.
		*1133	Valves and cocks with pressure parts wholly made of, or wholly lined with, any corrosion-resistant material.
		*1134	Valves, electrically controlled automatic types.
		*1135	Pipe valves, n.e.s., designed for working pressures of 900 or more psi (63 kg per sq cm).
		1140	Vacuum-insulated storage or transportation containers for liquids or liquefied gases, 25 litres (26.42 US qts or 22 Imperial qts) capacity or more.
		1141	Stainless steel tanks with capacity of 2,000 Imperial gallons (2,400 US gallons or 9,100 litres) or over; and piping and allied fixtures for such tanks.
		1145	Gauges for measuring pressures over 100 atmospheres (gauge pressures of 1470 psi or 103 kg per sq cm).
		1146	Moulding machines for plastics (extrusion, injection, and other).
		1330	Calenders (rubber-working) with 3 or more rolls and capable of handling fabric 55" (140 cm) <u>or</u> over.
		1331	Master batch mixers, with automatically controlled time cycle, chamber volume 130,000 cu cm or more.
		1332	Tire-curing presses, single or multiple cavity, capable of accommodating tire moulds of a total outside depth of 10" (25.4 cm) or over.
		1350	Carbon black manufacturing plants.
		*1380	Compressors and blowers, as follows (also see item 1130): a) Turbo compressors or blowers capable of operating at <u>either</u> (1) speeds of 8,000 rpm or over, <u>or</u> (2) with internal air flow at any point exceeding a Mach. number of 0.7; (Cont.)

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No.	Definition	No.	Definition
17 (5) (Cont.)		*1380 (Cont.)	<ul style="list-style-type: none"> b) Compressors or blowers capable of an overall compression ratio of 2:1 or more, coupled with a capacity of over 35,000 cu ft (991 cu m) per minute; c) Compressors or blowers capable of handling a mass flow of over 2500 pounds (1130 kg) per minute and designed for operating with intake above atmospheric pressure.
		2101	Distillation equipment (industrial), as follows: <ul style="list-style-type: none"> a) Fractionating, rectifying, and dephlegmating columns; <u>and</u> parts therefor (<u>except</u> those covered by item 1151d); b) Destructive distillation equipment; <u>and</u> parts; c) Stills designed to operate at absolute pressure of 5mm and lower of mercury; <u>and</u> parts therefor.
		2110	Heat exchangers (tubular) for industrial processes, n.e.s.; <u>and</u> components therefor.
		2120	Water-treatment equipment, industrial: Anti-scaling types.
		*2130	Vacuum pumps (<u>and</u> parts), all types (including mechanical, diffusion, and ejector) meeting <u>both</u> of the following specifications: <ul style="list-style-type: none"> a) Capable of inducing a vacuum within the range of 50 to 2 mm of mercury pressure absolute; <u>and</u> b) Not fabricated of, or lined with, any corrosion-resistant material.
		*2131	Pipe valves (except automatic control or corrosion-resistant) designed for working pressures within the ranges of 300 to 900 psi (21 to 63 kg per sq cm).
		*2132	Valves, controlled automatic types (<u>except</u> those electrically controlled and those made of or wholly lined with corrosion-resistant material, as covered by items 1134 and 1133 respectively) as follows: Any pipe valve having partially or wholly integral with it a mechanism actuated by hydraulic, pneumatic, mechanical or other means which regulates or controls its operations, <u>except</u> (i) check, non-return and float; (ii) pressure relief valves designed for working pressures of less than 300 psi (21 kg per sq cm); and (iii) valves specifically designed for milking machines and for electric household refrigerators and home freezers.
		2140	Drums (metal) of 5 or more US or UK gallons capacity (20 litres), made of, or lined with, any corrosion-resistant material, <u>except</u> containers designed for the transport of milk.
		2141	Chemical process vessels (with or without stirring gear and with or without jackets) and piping made of or lined with any corrosion-resistant material.
		3105	Multiple-effect evaporators.
		3110	Liquid solvent extraction equipment, n.e.s.

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No.	Definition	No.	Definition
17 (5) Cont.))		3140	Tanks and vats, n.e.s., and piping and allied fixtures made of or lined with any corrosion resistant material; and piping and allied fixtures for such tanks and vats.
		3102	Driers for chemical processes, the following: continuous screen; cylinder; drum; rotary; spray; vacuum.
		3101	Industrial distillation equipment, the following: stills operating at absolute pressures between 760 and 5 mm. of mercury, and parts.
		*3131	All pumps (except vacuum pumps) delivering liquids separately or in combination with solids and/or gases, with all the following characteristics: (a) designed for working pressures of 75 psig and under 300 psig; (b) designed to operate continuously at temperatures under 220 degrees Fahrenheit; (c) not fabricated of or lined with any corrosion-resistant materials.
17 (6) Mill, foundry, forging or any other metal working		1301	Casting equipment, as follows: a) Die-casting and centrifugal casting machines (except special artillery casting machines as covered by item 1086h); b) Equipment or plants for continuous casting of metals into partially-processed mill product forms.
		1305	Metal rolling mills, all types; and controls therefor.
		1311	Sintering equipment for metallurgical purposes.
		1315	Tinning units, electrolytic-automatic continuous.
		2301	Furnace equipment: pressure-top equipment (i.e., top equipment for blast furnaces designed to facilitate the retention during the recharging process of the pressure and temperature generated during the preceding heat for use with the new charge.)
		<u>Forming Machines</u>	
		1070	Forging hammers, as follows: a) forging hammers, having a falling weight exceeding 3.5 tons (English or metric); b) steam, air, or mechanical hammers, rated size 1800 lbs. and over.
		1071	Forging machines, as follows: a) forging machines capable of operating on bar stock of a diameter exceeding 3.5" (8.9 cm) or of equivalent cross-section; b) Heading and/or upsetting machinery (horizontal); c) Nut forging machinery d) Forging rolls; e) Swaging machinery.
		1072	Presses, mechanical or hydraulic, with a rated pressure of over 1,000 tons (English or metric).

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No.	Definition	No.	Definition
17 (6) Cont.		1073	Wire, tubing, and strip machinery, as follows: a) Machinery for drawing and/or tempering wire and tubing .015" (.381 mm) in diameter or less; b) Wire and strip forming machines, horizontal, multiple-slide.
		1074	Thread rolling machines (except those capable of thread rolling on sheet metal only).
		2070	Forging hammers and drop hammers, n.e.s.
		2071	Pipe and tube flanging machines, power driven.
		2072	Presses, mechanical and hydraulic, rated pressures between 500 and 1,000 metric tons, inclusive.
		3072	Presses, mechanical and hydraulic, rated pressure under 500 metric tons.
		1085	Balancing machines (dynamic) of the following types: a) Machines for locating and correcting unbalance; b) Machines for automatically locating and measuring the amount of unbalance.
		1086	All machines and equipment specially designed for manufacturing armaments (i.e., arms, ammunition, and implements of war), including: a) Shell lathes; b) Cartridge case trimming and head finishing lathes; c) Special spinning lathes for bombs; d) Hydraulic presses for shell banding (tire setters); e) Special forging machines for bomb nose and tail; f) Shell tappers; g) Armour plate drilling machines (not including radial); h) Special artillery centrifugal casting machines; i) Special boring machines for aircraft bomb nose and tail; j) Gun-jump screw lathes; k) Rifle working machines.
		1087	Broaching machines.
		1088	Gear-making machinery: All machinery designed for the manufacture and/or finishing of machine-cut gears. (This does not include machines for casting, moulding, stamping, or forging, but does include machines for the precision finishing and testing of these gears.)
		1089	Honing and/or lapping machines (except gear).

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No.	Definition	No.	Definition
17 (6) Cont.		1090	Profiling and duplicating machinery, as follows: a) Die-sinking machines; b) Profiling machines for marine and aircraft propeller blades (planing, shaping, milling and grinding); c) Profiling and duplicating milling machines (<u>except</u> propeller types covered by paragraph b); d) Profiling machines, n.e.s. e) Attachments to center lathes, capstan lathes, milling machines and vertical borers, which make them capable of carrying out profiling and duplicating.
		1091	Shaving machines (<u>except</u> gear machinery as covered by item 1088).
		2085	Contour band sawing and filing machines.
		2086	Portable machine tools, over 2 metric tons in weight, so designed that they must be attached to the work to be operated.
		3071	Power-driven plateworking machinery of the following kind: punching, shearing, bending, straightening, stretching, forming, cropping, scarfing, plate edge planing, press brakes.
		3072	Presses, mechanical and hydraulic, rated pressure under 500 metric tons.
		Supp.	Foundry plant.

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No.	Definition	No.	Definition
17	All machinery, equipment, parts, accessories, attachments, apparatus and controls of the following types: 7) Machine tools		
			<u>Boring Machines</u>
		1001	Vertical boring and turning mills, as follows: a) all types with table diameter 72" (183 cms) <u>or</u> over; b) automatic types (automatic feed) with table diameter under 72" (183 cms).
		1002	Jig boring machines
		1003	Horizontal combination boring, drilling, and milling machines, as follows: a) Rotary table type; b) Floor type; c) Planer type; d) Multiple head type.
		2002	High precision (fine) boring machines, production types only, capable of an accuracy of .015 mm (.0005") <u>or</u> better.
			<u>Drilling and Tapping Machines</u>
		1006	Deep hole drilling machines; and deep hole drills.
		1007	Multiple-spindle drilling and/or tapping machines having a cluster of a number of spindles driven from one or more power units, as follows: a) All automatic and non-automatic types with clusters of 7 or more spindles; b) Automatic horizontal and automatic combination horizontal-vertical types with clusters of less than 7 spindles.
		1008	Unit-head type drilling machines, as follows: a) Single-spindle; b) Fixed center multiple-spindle
		1009	Verticle inverted spindle drilling machines.
		2006	Multiple spindle drilling and/or tapping machines consisting of a cluster of less than 7 spindles driven from one or more power units, as follows: a) Horizontal and combination horizontal-vertical, non-automatic; b) Verticle, automatic
		2007	Radial drilling machines, 13" (33 cms) column diameter or over and 4' (122 cms) arm or over, plain or traversing type.
		3001	Vertical boring and turning mills - non-automatic types under 72 inches.
		3006	Multiple spindle drilling and/or tapping machines consisting of a cluster of less than 7 spindles driven from one or more power units, vertical types, non-automatic.
			<u>Grinding Machines</u>
		1015	External cylindrical grinding machines, centerless (whether or not automatic-sizing).
		1016	Internal cylindrical grinding machines, fully automatic, as follows: a) Automatic-sizing; <u>or</u> b) Centerless.

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No.	Definition	No.	Definition
17 (7) (Cont.)		1017	Surface grinding machines, multiple-spindle (automatic and non-automatic).
		1018	Crankshaft, crankpin, cam, and camshaft grinders.
		1019	Contour profile grinders.
		1020	Gap gauge grinding machines.
		1021	Jig grinders.
		1022	Lap radial grinders (automatic oscillating types) i.e. machines for grinding concave or convex surfaces such as those in ball bearing races.
		1023	Roll grinding machines (machines fitted with, or capable of being fitted with, cambering device only).
		1024	Spline grinders.
		1025	Thread grinding machines
		1026	Combined internal and external grinding machines capable of grinding irregular contours on both internal and external surfaces.
		1027	Grinders for broaching tools.
		2015	Internal cylindrical grinding machines, mechanical and hydraulic feed, production types only (i.e., automatic feed, automatic sizing, or centerless).
		2016	Combined internal and external cylindrical grinding machines, except those covered in item 1026.
		2017	Automatic single-spindle surface grinder.
		3015	External cylindrical grinders, plain standard and plain raised, 18 inches and over between centers (excluding machines fitted with or capable of being fitted with cambering device only).
		3016	Surface grinding machines, non-automatic single spindle.
			<u>Lathes</u>
		1035	Axle lathes
		1036	Crankshaft and camshaft lathes
		1037	Hollow spindle (oil country type) lathes.
		1038	Relieving lathes: machines specially designed for the "backing off" of rotary cutters to provide clearance behind the cutting edge.
		1040	Turret lathes, of bar capacity of 3" (7.5 cms) and over or swing-over-bed of 18" (46 cms) or over.
		1041	Automatic lathes (screw machines) of the following kinds: a) Multiple-spindle, bar or chucking; b) Single-spindle, chucking and/or between center.
		1042	Surfacing and boring lathes, 10" (25 cms) center height and over.
		1043	Combination boring and turning lathes.
		1044	Combination lathe, drilling, and milling machines, specially designed for mobile military workshops or for naval craft.
		2035	Engine and center lathes, as follows: a) Over 16" (400 mm) center height, or over 6' (1830 mm) between centers; b) Over 10" (250 mm) up to and including 16" (400 mm) center height, and not exceeding 6' (1830 mm) between centers.
		2036	Automatic lathes, single-spindle bar type only.
		3035	Turret lathes which are (a) less than 3" bar capacity and, in addition (b) less than 18" swing over bed.

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No.	Definition	No.	Definition
17 (7) (Cont.)			<u>Milling and Planing Machines</u>
		1050	Thread milling machines, 6" (15 cms) work diameter at the thread and over (except gun jump screw lathes covered by item 1086j).
		1051	Spar millers
		1052	Combination miller and planer with double housing and/or open side 48" (122 cms) width of the table and over.
		1053	Armour plate planers.
		2050	Automatic milling machines (cycle type)
		2051	Milling machines, planer type, incorporating one or more verticle spindles, or vertical and horizontal spindles or capable of incorporating vertical spindles, n.e.s.
		2052	Planing machines with table over 6' (183 cms) long.
		2060	Shapers of the following types: a) Hydraulic (vertical or horizontal); b) Horizontal, traveling head (including draw-out).
			<u>Thread-cutting Machines</u>
		1060	Automatic or semi-automatic cam-operated thread cutting machines, single or multiple spindle.
		1061	Pipe threading machines: a) Combination threading and cut-off, 8" (20 cms) and over diameter; b) Nipple threading machines, 8" (20 cms) and over diameter.
			<u>Attachments and Accessories</u>
		1065	Military-type jigs, fixtures and plate metal working accessories (except machines).
		2065	Chucks, expanding arbors, and collots for machine tools (air operated; hydraulic operated; magnetic; permanent magnet).
		2066	Metal cutting and working tools (not incorporating diamonds) for machine operations: a) Broaching cutting; b) Carbide and carbide tipped; c) Gear cutting; d) Forming roll sets; e) Lapping, honing.
		*2375	Abrasives, as follows: a) Silicon carbide, crude, and in grain of grit sizes 180 and coarser; b) Natural corundum; c) Fused aluminum oxide; d) Grinding wheels of silicon carbide, grit sizes 180 and coarser, and other articles incorporating these grains; e) Grinding wheels of natural corundum, and other articles incorporating these grains; f) Grinding wheels of fused aluminum oxide, and other articles incorporating these grains.

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No.	Definition	No.	Definition
17 (7) (Cont.)		*1374	Abrasives, as follows: a) Silicon carbide, in grains of grit sizes finer than 180; b) Boron carbide; c) Grinding wheels of silicon carbide of grit sizes finer than 180; and other articles incorporating these grains.
		1386	All tools, including dies and slugs, incorporating diamonds.
		1387	Diamond grinding, lapping and polishing wheels, and other articles incorporating diamond abrasives.
		Supp.	Metal working machine tools
		Supp.	Portable hand-held power tools (Pneumatic, electric and petrol) including parts.
		Supp.	Welding machines and equipment, and parts including welding rods and electrodes.
17 (8) Electrical (except household and ornamental light bulbs and household appliances.			<u>Electrical Equipment</u>
		1201	Electric furnaces, as follows: a) induction furnaces, vacuum metal melting; and electrical component parts therefor; b) Infra-red and induction annealing and heat-treating furnaces, and component parts therefor; c) Electrical equipment designed for electric industrial melting and refining furnaces (whether for, or as part of, a complete furnace) for the production of the following commodities: sodium, magnesium, artificial graphite tungsten carbide, silicon carbide, boron carbide and metal alloys containing 1% or more of any alloying element. (Includes all electrical generating equipment designed for induction type furnaces).
		1202	Electrodes for underwater cutting (covered tubular steel or ceramic types).
		1210	Searchlight control units.
		*1260	Electric motors, reversible types, over 1,000 h.p.; and automatic controls for starting, stopping, and reversing such motors.
		2265	*Rotating electrical machinery (including AC and DC generators, motors, rotary condensers, and rotary converters) of 500 h.p. or 500 KVA and above; and prime movers for such generators.
		3255	Electric generating sets.
		Supp.	Electric motors
		Supp.	Power equipment as follows: a) electrical generating, transforming, rectifying and converting, transmission, power distribution, control gear and accessories including substation equipment and parts thereof; b) plant for the production of fuel gas; c) boiler house plant for use with (a) and (b) above.

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No.	Definition	No.	Definition
17 (9)	Rayon and synthetic fiber manufacturing, preparing, spinning, twisting, filament and band-forming.	1359	Rayon Manufacturing equipment, as follows: a) Spinning pumps and motors; b) Filament extrusion and spinning machines (except pumping units and spinnerets;
		1360	Spinnerets for yarn of 150 denier and greater.
(10)	Textile dyeing and finishing	None	
(11)	Ball and roller bearings and components		<u>Metal and Mineral Manufactures</u>
		1601	Anti-friction bearings (ball or roller) and parts, as follows: a) Steel alloy bearings with inner-ring bore diameters as follows: 1) <u>Ball</u> : 15 mm and below <u>or</u> 60 mm and above; 2) <u>Roller</u> : 20 mm below <u>or</u> 70 mm and above; b) Bearing parts, as follows: 1) All steel alloy rollers and balls (except 'low quality' balls made of 'normal' chrome steel, as defined in Interpretative Footnote No. 2 at end of List I; 2) All steel alloy outer rings, inner rings, and separators (except any such parts useable only for bearings not covered by subitem 1601(a) above.
		2601	Anti-friction bearings (ball or roller) and parts, as follows: a) steel alloy bearings with inner-ring bore diameters as follows: 1) <u>Ball</u> : over 15 mm but under 60 mm; 2) <u>Roller</u> : over 20 mm but under 70 mm; b) Bearing parts, as follows: 1) Steel alloy outer rings, inner-rings, and separators useable only for bearings covered by sub-item (a) above.
(12)	Industrial or manufacturing not specifically mentioned.		<u>Equipment for other Specific Industries</u>
		1355	Radio valve manufacturing machinery
		1375	Air-conditioning units, packaged (except window-mounted types).
		1388	Dynamometers capable of absorbing more than 300 brake horsepower.
		1395	Precipitators (electrostatic), capable of removing 90% or more (by blackness test) of all airborne particles down to sizes as small as 1/250,000 of an inch; and specialized parts therefor.
			<u>Electrical and Power-Generating Equipment</u>
		2270	Turbines over 300 h.p. (except those designed for driving electric generators).

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No.	Definition	No.	Definition
18	All textile equipment, machinery, parts, attachments and accessories not specifically mentioned.	None	
22	Wood products.		
1)	Telephone poles	None	
2)	Railway sleepers and cross ties	None	
3)	Mining timber	None	
4)	Piling logs	None	
5)	Softwood (coniferous) logs ...	None	
6)	Softwood (coniferous) lumber...	None	
7)	Hardwood (broadleaf) logs...	None	
8)	Firewood and gasumaki...	None	
9)	Charcoal	None	
10)	All wood pulp	*2720	Purified cellulose containing not less than 88% alphacellulose.

Remarks: Japanese coverage broader:

23	All pyrethrum flowers and products.	None	
24	All weapons and war materials of any nature, gun powder and explosives (including industrial types, explosive stabilizers, poison gases, incendiaries, pyrotechnics and component parts of weapons and war material and ingredients for the manufacture of the foregoing.	a-(1)	All arms, ammunition, etc.
		*1701	Detonators: mercury fulminate; lead styphnate; lead thiocyanate; lead azide.
		*1703	Stabilizers for explosives, as follows: a) Ethyl and methyl centralites b) Diphenylamine; c) N, N-diphenylurea (unsymmetrical diphenylurea); d) Methyl-N, N-diphenylurea (methyl unsymmetrical diphenylurea) e) Ethyl-N, N-diphenylurea (ethyl unsymmetrical diphenylurea) f) Ethyl phenyl urethane; g) Diphenyl urethane; h) Diortho-tolyl-urethane
		*1729	Hexamethylene-tetramine
		*1731	Hydrazine; hydrazine hydrate; hydrazine salts.
		*1741	Nitro-guanidine
		*1742	Guanidine nitrate
		*1744	Pentaerythritol; pentaerythritol-tetranitrates. (Note: Tetranitrates controlled by State Dept. Munitions List)
		*1748	Picric acid (trinitrophenol)
		*1756	Sodium azide
		*2741	Nitric acid; ammonium nitrate; potassium nitrate
		*2742	Dynamite
		*2764	Toluene
		*3733	Glycerine
		*3701	Explosives, n.e.s.

Remarks: Japanese coverage broader. Some ingredients for manufacture of items in Japanese list covered elsewhere in COCOM - UK Lists under specific categories of chemicals, metals, etc.

31. All imported goods not elsewhere mentioned.

32. All goods unladen